

Exhibit B
'tzlas01.log'

```

SQL> @tzlas01
SQL>
SQL> CONNECT LBACSYS/LBACSYS
Connected.
SQL>
SQL> -- Create two SA policies
SQL> EXECUTE SA_SYSDBA.CREATE_POLICY('SA1','SA1_COL','ALL_CONTROL');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_SYSDBA.CREATE_POLICY('SA2','SA2_COL','NO_CONTROL');

PL/SQL procedure successfully completed.

SQL>
SQL> -- Initialize PUBLIC labels for them
SQL> EXECUTE SA_LABELS.CREATE_LEVEL('SA1',0,'PUBLIC','PUBLIC Level');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABELS.CREATE_LEVEL('SA2',0,'PUBLIC','PUBLIC Level');

PL/SQL procedure successfully completed.

SQL>
SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1',10,'public');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa2',10,'public');
BEGIN SA_LABEL_ADMIN.CREATE_LABEL('sa2',10,'public'); END;

*
ERROR at line 1:
ORA-12432: LBAC error: Label with the given label_tag: 10 already exists
ORA-06512: at "LBACSYS.LBAC_STANDARD", line 0
ORA-06512: at "LBACSYS.LBAC_LABEL_ADMIN", line 57
ORA-06512: at line 1

SQL>
SQL> -- Setup some labels for policy SA1
SQL> EXECUTE SA_LABELS.CREATE_LEVEL('sa1',10,'c','confidential');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABELS.CREATE_LEVEL('sa1',20,'s','SECRET');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABELS.CREATE_LEVEL('sa1',30,'ts','Top Secret');

PL/SQL procedure successfully completed.

SQL>
SQL> EXECUTE SA_LABELS.CREATE_COMPARTMENT ('sa1', 5, 'A', 'ALPHA');

```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE SA_LABELS.CREATE_COMPARTMENT ('sa1', 10, 'b', 'beta');
```

PL/SQL procedure successfully completed.

SQL>

```
SQL> EXECUTE SA_LABELS.CREATE_GROUP ('sa1', 5, 'G1','group 1');
```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE SA_LABELS.CREATE_GROUP ('sa1', 51, 'G2','group 2','G1');
```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE SA_LABELS.CREATE_GROUP ('sa1', 52, 'G3','group 3','G1');
```

PL/SQL procedure successfully completed.

SQL>

```
SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1', 200,'c');
```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1', 225,'c:b,a');
```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1',210,'c:a');
```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1',205,'c:g2');
```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1', 300,'s');
```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1', 310,'s:a');
```

PL/SQL procedure successfully completed.

SQL>

SQL> -- Generate some labels

```
SQL> SELECT LABEL_TO_CHAR(TO_SA_LABEL('sa1','c:a:g1')) FROM DUAL;
```

```
LABEL_TO_CHAR(TO_SA_LABEL('SA1','C:A:G1'))
```

-

C:A:G1

1 row selected.

```
SQL> SELECT LABEL_TO_CHAR(TO_SA_LABEL('sa1','s:a,b')) FROM DUAL;
```

```
LABEL_TO_CHAR(TO_SA_LABEL('SA1','S:A,B'))
```

```
S:A,B
```

```
1 row selected.
```

```
SQL> SELECT LABEL_TO_CHAR(TO_SA_LABEL('sa1','public:a:g1')) FROM DUAL;
```

```
LABEL_TO_CHAR(TO_SA_LABEL('SA1','PUBLIC:A:G1'))
```

```
PUBLIC:A:G1
```

```
1 row selected.
```

```
SQL>
```

```
SQL> COL POLICY_NAME FORMAT A15
```

```
SQL> COL LABEL FORMAT A20
```

```
SQL> SELECT * FROM DBA_SA_LABELS;
```

POLICY_NAME	LABEL	LABEL_TAG	LABEL_TYPE
SA1	PUBLIC	10	USER LABEL
SA1	C	200	USER/DATA LABEL
SA1	C::G2	205	USER/DATA LABEL
SA1	C:A	210	USER/DATA LABEL
SA1	C:A,B	225	USER/DATA LABEL
SA1	S	300	USER/DATA LABEL
SA1	S:A	310	USER/DATA LABEL
SA1	C:A:G1	1000000000	USER/DATA LABEL
SA1	S:A,B	1000000001	USER/DATA LABEL
SA1	PUBLIC:A:G1	1000000002	USER/DATA LABEL

```
10 rows selected.
```

```
SQL>
```

```
SQL> col labelvalue format a20
```

```
SQL> col policy_name format a10
```

```
SQL> SELECT * from dba_sa_labels;
```

POLICY_NAM	LABEL	LABEL_TAG	LABEL_TYPE
SA1	PUBLIC	10	USER LABEL
SA1	C	200	USER/DATA LABEL
SA1	C::G2	205	USER/DATA LABEL
SA1	C:A	210	USER/DATA LABEL
SA1	C:A,B	225	USER/DATA LABEL
SA1	S	300	USER/DATA LABEL
SA1	S:A	310	USER/DATA LABEL
SA1	C:A:G1	1000000000	USER/DATA LABEL
SA1	S:A,B	1000000001	USER/DATA LABEL
SA1	PUBLIC:A:G1	1000000002	USER/DATA LABEL

```
10 rows selected.
```

```
SQL>
```

SQL> -- Set user labels

SQL> EXECUTE SA_USER_ADMIN.SET_LEVELS('sa1','scott','s','c');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_USER_ADMIN.SET_COMPARTMENTS('sa1','scott','a,b');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_USER_ADMIN.SET_GROUPS('sa1','scott','G1');

PL/SQL procedure successfully completed.

SQL> SELECT * FROM dba_sa_user_levels ORDER BY policy_name, user_name;

POLICY_NAM	USER_NAME	MAX_LEVEL
MIN_LEVEL	DEF_LEVEL	
SA1	SCOTT	S
C		S
S		

1 row selected.

SQL> SELECT * FROM dba_sa_user_compartments ORDER BY policy_name, user_name;

POLICY_NAM	USER_NAME	COMP	RW_AC
SA1	SCOTT	A	WRITE
Y			
Y			
SA1	SCOTT	B	WRITE
Y			
Y			

2 rows selected.

SQL> SELECT * FROM dba_sa_user_groups ORDER BY policy_name, user_name;

POLICY_NAM	USER_NAME	GRP	RW_AC
SA1	SCOTT	G1	WRITE
Y			

Y

1 row selected.

SQL>

SQL> -- Look at session labels

SQL> CONNECT scott/tiger

Connected.

SQL>

```
SQL> create or replace FUNCTION get_list (pol IN VARCHAR2)
2   RETURN VARCHAR2 IS
3     test_list lbacsys.lbac_label_list;
4   begin
5     test_list:=lbac_session.effective_labels(pol);
6     RETURN label_list_to_named_char(test_list,'effective');
7   END;
8   /
```

Function created.

SQL>

SQL> select get_list('sa1') from dual;

GET_LIST('SA1')

```
-----
-
MAX READ LABEL='S:A,B:G1,G2,G3',MAX WRITE LABEL='S:A,B:G1,G2,G3',MIN WRITE
LABEL
='C',READ LABEL='S:A,B:G1,G2,G3',WRITE LABEL='S:A,B:G1,G2,G3',ROW
LABEL='S:A,B:G
1,G2,G3'
```

1 row selected.

SQL> select get_list('sa2') from dual;

GET_LIST('SA2')

```
-----
-
```

1 row selected.

SQL>

SQL> SQL>